Mathematics Library
510.5
D877
v.22
1955

CONTENTS

VOLUME 22, 1955

AGNEW, RALPH PALMER. Equiconvergence of Cesàro and Riesz transforms of series 451

BALACHANDRAN, V. K. A mapping theorem for metric spaces 461

BARRETT, LIDA K. Regular curves and regular points of finite order 295

BELLMAN, RICHARD. Boundedness of the solutions of second order linear differential equations 511

BERKOVITZ, LEONARD D. AND GOSSELIN, RICHARD P. Restricted summation and localization of double trigonometric series 243

BLAIR, ROBERT L. Stone's topology for a binary relation 271

BOTTEMA, O. A generalization of Pascal's theorem 123

BRAM, JOSEPH. Subnormal operators 75

BRAUER, ALFRED AND LABORDE, H. T. Limits for the characteristic roots of a matrix. VI: Numerical computation of characteristic roots and of the error in the approximate solution of linear equations 253

BUTZER, P. L. Summability of generalized Bernstein polynomials. I ... 617

CARLITZ, L. A note on power residues 583

CARLITZ, L. Congruences for generalized Bell and Stirling numbers 193

CARLITZ, L. Note on the class number of quadratic fields 589

CARLITZ, L. AND HODGES, JOHN H. Representations by Hermitian forms in a finite field 393

COHEN, ECKFORD. An extension of Ramanujan's sum. II. Additive properties 543

COHEN, ECKFORD. The quadratic singular sum 373

COLES, W. J. Linear and Riccati systems 333

DEVINATZ, A. A representation of functions as Laplace-Stieltjes integrals 185

DOUGLAS, JIM, JR. AND GALLIE, T. M., JR. On the numerical integration of a parabolic differential equation subject to a moving boundary condition 557

DUFFIN, R. J. Continuation of biharmonic functions by reflection 313

EBERLEIN, W. F. Characterizations of Fourier-Stieltjes transforms..... 465

ERDÖS, P., PIRANIAN, G. AND HERZOG, F. Polynomials whose zeros lie on the unit circle..... 347

FADELL, E. R. A property of compact absolute neighborhood retracts... 179

FAUCETT, W. M., KOCH, R. J. AND NUMAKURA, K. Complements of maximal ideals in compact semigroups..... 655

FLANDERS, HARLEY. Finitely generated modules..... 477

FLOYD, E. E. Orbit spaces of finite transformation groups. II..... 33

GALLIE, T. M., JR. AND DOUGLAS, JIM, JR. On the numerical integration of a parabolic differential equation subject to a moving boundary condition..... 557

GOSSELIN, RICHARD P. AND BERKOVITZ, LEONARD D. Restricted summation and localization of double trigonometric series..... 243

HAMMER, PRESTON C. Maximal convex sets..... 103

HANNEKEN, C. B. Irreducible quintic congruences..... 107

HARTMAN, PHILIP AND WINTNER, AUREL. Binary, linear, elliptic, partial differential equations..... 515

HAYNSWORTH, EMILIE V. Quasi-stochastic matrices..... 15

HEINS, MAURICE. Meromorphic functions with assigned asymptotic values..... 353

HERSTEIN, I. N. The Lie ring of a simple associative ring..... 471

HERZOG, F., ERDÖS, P. AND PIRANIAN, G. Polynomials whose zeros lie on the unit circle..... 347

HEWITT, EDWIN AND ZUCKERMAN, HERBERT S. Arithmetic and limit theorems for a class of random variables..... 595

HODGES, JOHN H. Representations by bilinear forms in a finite field..... 497

HODGES, JOHN H. AND CARLITZ, L. Representations by Hermitian forms in a finite field..... 393

KADISON, RICHARD V. The general linear group of infinite factors..... 119

KAWADA, YUKIYOSI. Class formations..... 165

KLEE, V. L., JR. Boundedness and continuity of linear functionals..... 263

KOCH, R. J., NUMAKURA, K. AND FAUCETT, W. M. Complements of maximal ideals in compact semigroups..... 655

LaBorde, H. T. and Brauer, Alfred. Limits for the characteristic roots of a matrix. VI: Numerical computation of characteristic roots and of the error in the approximate solution of linear equations 253

Langer, Rudolph E. The solutions of the differential equation $v''' + \lambda^2 zv' + 3\mu\lambda^2 v = 0$ 525

Lewis, D. C. Periodic solutions of differential equations containing a parameter 39

Lorch, Lee and Szego, Peter. A singular integral whose kernel involves a Bessel function 407

Lorentz, G. G. Borel and Banach properties of methods of summation 129

McCoy, Neal H. Subdirect sum representations of prime rings 357

McKean, Henry P., Jr. Hausdorff-Besicovitch dimension of Brownian motion paths 229

McShane, E. J. A dominated-convergence theorem 325

Nehari, Zeev. On the coefficients of R-univalent functions 223

Newman, Morris. Structure theorems for modular subgroups 25

Numakura, K., Faucett, W. M. and Koch, R. J. Complements of maximal ideals in compact semigroups 655

Nussbaum, A. E. The Hausdorff-Bernstein-Widder theorem for semigroups in locally compact Abelian groups 573

Olson, F. R. Arithmetic properties of Bernoulli numbers of higher order 641

Ore, Oystein. Graphs and matching theorems 625

Ostrowski, A. M. Note on a theorem by A. Brauer 469

Ostrowski, A. M. Note on bounds for some determinants 95

Perfect, Hazel. Methods of constructing certain stochastic matrices. II. 305

Piranian, G., Herzog, F. and Erdös, P. Polynomials whose zeroes lie on the unit circle 347

Royster, W. C. Note on values omitted by p-valent functions 153

Rudin, Walter. The radial variation of analytic functions 235

Shapiro, Victor L. The Laplacian of Fourier transforms 435

Sinvhal, S. D. Borel summability of the conjugate series of a derived Fourier series 445

SLYE, JOHN MARSHALL. Flat spaces for which the Jordan curve theorem holds true 143

SMYTHE, WILLIAM R., JR. A theorem on upper semi-continuous decompositions 485

STREBE, DAVID D. Irreducible closed connexes 365

STROTHER, WAYMAN. Fixed points, fixed sets, and M-retracts 551

STROTHER, WAYMAN L. Multi-homotopy 281

SWIFT, GEORGE. Irregular Borel measures on topological spaces 427

SZEGO, PETER AND LORCH, LEE. A singular integral whose kernel involves a Bessel function 407

TORNHEIM, LEONARD. Asymmetric minima of quadratic forms and asymmetric Diophantine approximation 287

WADA, HIDEKAZU. Local connectivity of mapping spaces 419

WEINBERGER, H. F. An extension of the classical Sturm-Liouville theory 1

WILLIAMS, R. F. Local properties of open mappings 339

WINTNER, AUREL AND HARTMAN, PHILIP. Binary, linear, elliptic, partial differential equations 515

WOLFSON, KENNETH G. A class of primitive rings 157

YEN, TI. Trace on finite AW^*-algebras 207

YOOD, BERTRAM. Multiplicative semi-groups of continuous functions on a compact space 383

ZINK, ROBERT E. Direct unions of measure spaces 57

ZUCKERMAN, HERBERT S. AND HEWITT, EDWIN. Arithmetic and limit theorems for a class of random variables 595